

## IN THE CLAIMS:

Please AMEND claims 1-7, as shown below.

1. (Currently Amended) A commercial transaction management system for managing commercial transaction between a plurality of first traders (i=1, 2, ..) and a plurality of second traders (j=1, 2, ...) as parties involved, based on network communication with a first terminal device of the first trader (i) placing order of goods, and a second terminal device of the second trader (j) receiving order of goods, comprising:

a first processing unit for determining a first index (a<sub>ij</sub>) according to cost needed for commercial transaction with the first trader (i) for each of the second traders (j), such that the first index decreases as the cost increases, based on a part of or all of a placed order content of the first trader (i), upon recognizing the placed order content including category, quantity, desired delivery date, and priority rank of the ordered goods by the first trader (i) based on the communication with the first terminal device;

a second processing unit for determining a second index (b<sub>ij</sub>) according to time needed for commercial transaction with the first trader (i) for each of the second traders (j), such that the second index decreases as the time increases, based on a part of or all of the placed order content of the first traders (i), upon recognizing the placed order content of the first trader (i) based on the communication with the first terminal device;

a third processing unit for determining a third index  $(c_i)$  according to quality or level of service, which is identified by a delivery date compliance rate (= (quantity of goods delivered in compliance with the delivery date) / (quantity of total delivery)) such that the third index increases as the quality or the level improves, upon recognizing the quality of goods or the level of service of each of the second traders  $(j)$ ;

a fourth processing unit for determining a selection index  $(K_{ij})$  for selecting the second trader  $(j)$ , based on the first index  $(a_{ij})$ , the second index  $(b_{ij})$ , and the third index  $(c_i)$  determined by the first processing unit, the second processing unit, and the third processing unit, respectively, according to equation (1) and for preferentially determining the second trader  $(j=1, 2, \dots)$  receiving order of goods from the first trader  $(i)$ , based on the in the descending order of the selection index  $(K_{ij})$ ,

Equation (1):  $K_{ij} = d_{ij} \{ \alpha_i \cdot a_{ij} + \beta_i \cdot b_{ij} + \gamma_i \cdot c_i \}$ , wherein  $\alpha_i$  is a first coefficient depending on a commercial transaction cost,  $\beta_i$  is a second coefficient depending on a commercial transaction time,  $\gamma_i$  is a third coefficient depending on a quality of the goods, which are all positive numbers for the first trader  $(i)$  depending on the order placing policy of the first trader  $(i)$ , and wherein  $d_{ij}$  is a fourth coefficient which is a positive number for each of the first traders  $(i)$  based on the order receiving policy of the second trader  $(j)$ ;

a fifth processing unit for determining a received order content including the category, quantity, delivery date, and priority rank of the ordered goods received by the second trader  $(j)$ , based on the placed order content set by the first trader  $(i)$  recognized by the first or the second processing unit; and

a communication processing unit for transmitting the received order content determined by the fifth processing unit to the second terminal device of the second trader (j) selected by the fourth processing unit.

2. (Currently Amended) The commercial transaction management system according to claim 1, wherein the fourth processing unit determines the selection index based on the first index, the second index, and the third index, upon recognizing an order placing policy of the first trader (i) indicating the importance to the first trader (i) of the cost needed for the commercial transaction, the time needed for the commercial transaction, and the quality of the goods or the level of the service, and upon weighing the first index, the second index, and the third index in accordance with the order placing policy of the first trader (i).

3. (Currently Amended) The commercial transaction management system according to claim 1, wherein the fourth processing unit determines the selection index based on an order receiving policy of the second trader (j) indicating the ~~magnitude of the~~ desire by priority preference of the second trader (j) to have commercial transaction with each of the first traders (i), upon recognizing the order receiving policy of the second trader (j) based on the communication with the second terminal device.

4. (Currently Amended) The commercial transaction management system according to claim 1, further comprising a sixth processing unit for recognizing a

production plan of goods prepared by the second terminal device, based on the communication with the second terminal device to which the placed order content is transmitted by the communication processing unit, and for recognizing the delivery date to the first trader (i) of the goods produced by the second trader (j) in accordance with the production plan, wherein the communication processing unit transmits the delivery date recognized by the sixth processing unit to the first terminal device.

5. (Currently Amended) The commercial transaction management system according to claim 1, further comprising a first correction processing unit for ~~correcting the first index~~ determining a change in the cost based on an order receiving status or a production progress status of the goods by the second trader (j), upon recognizing the order receiving status or the production progress status of the second trader (j) based on the communication with the second terminal device, and correcting the first index such that the first index decreases as the cost increases.

6. (Currently Amended) The commercial transaction management system according to claim 1, further comprising a second correction processing unit for ~~correcting the second index~~ determining a change in the time based on an order receiving status or a production progress status of the goods by the second trader (j), upon recognizing the order receiving status or the production progress status of the second trader (j) based on the communication with the second terminal device, and correcting the second index such that the second index decreases as the time increases.

7. (Currently Amended) The commercial transaction management system according to claim 1, further comprising a third correction processing unit for ~~correcting the third index~~determining a change in the quality or level of service based on ratings of quality of goods or level of service for each of the second traders (j) by each of the first traders (i), upon recognizing the ratings of each of the second traders (j) by each of the first traders (i) based on the communication with the first terminal unit, and correcting the third index such that the third index increases as the quality or the level of service improves.